

SAVINSKIY, A.M., veterinarnyy vrach

Treating endometritis in cows. Veterinariia 40 no.8:60 Ag '63,  
(MIRA 17:10)

1. Opytno-pokazatel'noye khozyaystvo "Avrora" TSarychanskogo  
rayona, Dnepropetrovskoy oblasti.

SAVINSKIY, D.

Some analytical and statistical characteristics of gamma probing  
of radioactive element deposits in situ and in gamma logging.  
Izv. AN SSSR. Ser.geofiz. no.5:659-663. My '62. (MIRA 15:8)  
(Radioactive prospecting)

SAVINSKIY, D. V.

N/5  
611.91  
.S2  
1954

Kurs promyshlennoy statistiki (course in industrial statistics) 4 izd. Moskva,  
Gosstatizdat, 1954.  
404 P. tables

SAVINSKIY, D.V.

KOCHEN'YAK, Ferents [Kocsenyak, Ferenc] (Vengriya); SAVINSKIY, D.V., prof.,  
doktor ekon.nauk, otvetstvennyy red.; KHALUGA, A.K., tekhn.red.

[Principal problems in the statistics of capital construction]  
Osnovnye voprosy statistiki kapital'nogo stroitel'stva. Moskva,  
(MIRA 11:4)  
Ekonom.-stat. in-t. 1957. 188 p.

1. Byvshiy aspirant kafedry promyshlennoy statistiki Moskovskogo  
ekonomiko-statisticheskogo instituta (for Kocseuyak)  
(Construction industry--Statistics)

AUTHOR: Savinskiy, D. 2-2-9/12

TITLE: A.A. Rodshteyn, Statistics of Power Engineering in Industry  
(A.A. Rodshteyn, statistika energetiki v promyshlennosti)

PERIODICAL: Vestnik Statistiki, 1957, # 2, p 72-73 (USSR)

ABSTRACT: The article deals with a critical review of the book "Statistics of Power Engineering in Industry" by A.A. Rodshteyn, published in 1956. It deals with contemporary problems of power economy in the USSR and improvements in the field of statistical practice. It is built up similar to a manual on industrial statistics but is more detailed and thorough. Power resources, electrification of production processes, methods of calculation of a plant's power capacity, periodical and annual accounts of enterprises on power and fuel economy are topics which will interest economists and statisticians employed in industry. The book explains the basic methods of power statistics, indicating a few ways for further improvement and development of industrial statistics.

AVAILABLE: Library of Congress

Card 1/1

2-1-7/9

AUTHOR: Kaminskiy, L., Novozhilov, V., Novosel'skiy, N.

TITLE: A Manual on the General Theory of Statistics (Kurs obshchey teorii statistiki) by Kozlov, T.I., Ovsiyenko, V.Ye., Savin-skii, D.V., and Smirnskiy, V.I.

PERIODICAL: Vestnik Statistiki, 1958, # 1, p 68-76 (USSR)

ABSTRACT: A team is reviewing a text-book on the theory of statistics published in 1956 by the Moscow University and approved by the Main Administration of Universities and Economical and Juridical Vuzes of the USSR Ministry of Higher Education (Glavnnoye upravleniye universitetov, ekonomicheskikh i yuridicheskikh vuzov Ministerstva vysshego obrazovaniya SSSR) as a valid text-book for use in economical institutes and faculties.

Nevertheless the text-book is criticized negatively. Only a few subjects are dealt with in a satisfactory way, but on the whole the work does not meet the standard of a good text-book. Many essential statistical questions are not mentioned at all, nothing was said about the organization of statistics in people's democracies, in capitalistic countries and about international statistical organizations. Other statistical problems are treated either too short or superficially. The important role of the Russian statisticians in the history of

Card 1/2

2-1-7/9

A Manual on the General Theory of Statistics by Kozlov, T.I., Ovsiyenko, V.Ye, Savinskiy, D.V., and Smirnskiy, V.I.

statistics is not pointed out sufficiently. The authors did not comply with the general directions given by the Statistical Conference in 1954.

The task of the publishers is to eliminate all these deficiencies in the second edition of the text-book.

AVAILABLE: Library of Congress

Card 2/2

AUTHOR: Savinskiy, D. SOV/2-58-10-6/15

TITLE: Industrial Statistics of the USSR Over the Past 40 Years  
(Promyshlennaya statistika SSSR za 40 let)

PERIODICAL: Vestnik statistiki, 1958, Nr 10, pp 31 - 41 (USSR)

ABSTRACT: The author gives a short historical review of the most important work accomplished by Soviet industrial statistics. Prior to the October Revolution there was very little statistical data available so that Soviet statisticians had to start from the beginning. The first industrial censuses were taken in 1900 and 1908. A short industrial census was conducted in 1920, in connection with demographical and agricultural census. The third industrial census was taken in 1923, followed by a census of minor industrial enterprises in 1925. Reorganization of the Central Statistical Administration (TsSU) was started in 1926. The grow-

Card 1/2

SCV/2-58-10-6/15

Industrial Statistics of the USSR Over the Past 40 Years

ing importance of industry in the USSR necessitated an expansion of statistical work. Beginning in 1934, a periodical on statistics was published, and in 1936 a manual on industries of the USSR. Lately, industrial statistics had to take up the problems of power engineering and power supply of industrial enterprises as well as the utilization of industrial equipment. There is 1 Soviet reference.

Card 2/2

SAVINSKIY, Dmitriy Vasil'yevich, prof., zasluzhennyy deyatel' nauki RSFSR;  
GRYAZNOV, V.I., red.; MELENT'IEV, A.M., tekhn.red.

[Course on industrial statistics] Kurs promyshlennoi statistiki.  
Izd.5., dop. i perer. Moskva, Gosstatizdat TsSU SSSR, 1960. 479 p.  
(MIRA 14:3)

(Industrial statistics)

PODVARKOV, Georgiy Aleksandrovich; SAVINSKIY, D.V., prof., red.; POPOV,  
G.Kh., red.; YERMAKOV, M.S., tekhn. red.

[Dmitrii Petrovich Zhuravskii, Russian statistician and economist]  
Russkii statistik-ekonomist Dmitrii Petrovich Zhuravskii. Pod red.  
D.V.Savinskogo. Moskva, Izd-vo Mosk. univ., 1961. 87 p.  
(MIRA 14:6)  
(Zhuravskii, Dmitrii Petrovich, 1810-1856)

SAVINSKIY, D.V., prof.; BOYARSKIY, A.Ya.; POIVARKOV, G.A.; CHEKANSKIY, N.A.; GROMYKO, G.I.; TRUDOVA, M.G.; YEFIMOV, O.S., red.; KOZLOVA, T.A., tekhn. red.

[Economic statistics]Ekonomicheskaya statistika; kurs lektsii.  
Pod red. D.V.Savinskogo. Moskva, Izd-vo Mosk. univ., 1962. 270 p.  
(MIRA 16:2)

1. Moscow. Universitet. Kafedra statistiki.  
(Statistics)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4

D'YACHKOV, Mikhail Fedorovich; SAVINSKIY, D.V., prof., zasl. deyatel'  
nauki RSFSR, nauchnyy red.; MASHIKHIN, Ye.A., red.; PYATAKOVA,  
N.D., tekhn. red.

[Statistics of capital construction] Statistika kapital'nogo  
stroitel'stva. Moskva, Gosstatizdat TsSU SSSR, 1962. 336 p.  
(MIRA 15:3)

(Construction industry--Statistics)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4"

SAVINSKIY, E.

Widespread use of chemistry in the national economy. Vop. ekon.  
no.6:16-29 Je '62. (MIRA 15:6)  
(Chemistry, Technical)

SAVINSKIY, E.

Synthetic materials and the structure of the raw material balance  
of industry. Vop.ekon. no.4:41-52 Ap '63. (MIRA 16:4)  
(Synthetic products) (Materials)

SAVINSKIY, E.S., kandidat ekonomiceskikh nauk.

Working out the vasis for the rate of development of the chemical  
industry. Khim.prom. no.2:65-69 Mr '56. (MIRA 9:8)  
(Chemical industries)

FEDORENKO, Nikolay Prokof'yevich; SAVINSKIY, Ezikiil Simonovich;  
GEL'PERIN, N.I., red.; ROTOVA, R.S., red.izd-va; MULIKOVA,  
I.F., tekhn.red.

[Outline of the economics of the chemical industry of the  
U.S.S.R.] Ocherki po ekonomike khimicheskoi promyshlennosti  
SSSR. Moskva, Izd-vo "Vysshiaia shkola," 1960. 358 p.  
(MIRA 14:3)

(Chemical industries)

BIRGER, G.Ye., kand.ekonom.nauk; SAVINSKIY, E.S., kand.ekonom.nauk;  
FEDORENKO, N.P., doktor ekonom.nauk

Development of the production of synthetic polymer materials in  
capitalist countries. Zhur.VKHO 7 no.2:212-216 '62.

(MIRA 15:4)

(Polymers)

SAVINSKIY, E.S., kand. ekonom. nauk

Structural shifts of the industrial raw material balance in relation  
to the development of production of synthetic material. Zhur.VKHO  
9 no.1:12-18 '64. (MIRA 17:3)

BERRI, L.Ya., doktor ekon. nauk; KLIMENKO, K.I., doktor ekon. nauk; OBLOMSKII, Ya.A., kand. ekon. nauk; SAVINSKIY, E.S., kand. ekon. nauk; KHEYNNMAN, S.A., doktor ekon. nauk, red.; MOSKVIN, D.D., kand. ekon. nauk, nauchn. red.; ORLOV, N.A., prof., red.; SAZANOVICH, N.K., mlad. red.; SIMKINA, G.S., mlad. red.

[U.S.S.R. industry in 1929-1963; technical and economic trends and structural changes] Promyshlennost' SSSR v 1929-1963 gg., tekhniko-ekonomicheskie tendentsii i strukturnye sviggi. [By] L.IA.Berri i dr. Moskva, Ekonomika, 1965. 406 p.

(MIRA 18:5)

MESHALKIN, Ye.N.; SERGIYEVSKIY, V.S.; ARKHPOVA, G.P.; OKUNEVA, G.N.; SAVINSKIY, G.A.; VLASOV, Yu.A.; BUDENKO, V.I.

Theoretical possibility of preserving the basic function of the lung following surgical resection of all its neural connections (in auto-transplantation) under experimental conditions. Eksper. khir. i anest. 9 no.2:34-42. Mr-Ap '64. (MIRA 17:11)

1. Institut eksperimental'noy biologii i meditsiny (nauchnyy rukovoditel' - prof. Ye.N. Meshalkin, ispolnyayushchiy obyazannosti direktora detsent Yu.I. Berodin) Ministerstva zdravookhraneniya RSFSR, Novosibirsk.

SAVINSKIY, G.

Agricultural Machinery

New grain dryer. Kolkh. proiz., 12, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

GLADKOV, N.G., kandidat tekhnicheskikh nauk; SAVINSKIY, G.B., inzhener-agronom.

OVR-4 universal sieve-and-fan seed cleaner with 2TTs-600 grader attachment.  
Sel'khozmashina no.11:4-10 N '53. (MLRA 6:11)

(Grain--Cleaning) (Agricultural machinery)

SAVINSKIY, G. B.

15137\* (Improved Method of Cleaning Seeds of "Dolgunets" Variety of Flax.) Uluchshenniy sposob očistki semian l'na-dolgunca. G. B. Savinskiy. Dostizheniya Nauki i Perekopogo Opyta v Sel'skime Khozjajstvye. 1854; no. 7, July; p. 84-87.

Design and operation of equipment. Diagram, photograph.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4

~~SAVINSKIY~~  
DEMIN,V., inzhener; ~~SAVINSKIY,G.~~, inzhener

Combine for golden cobs. Tekh.mol. 23 no.7:19-21 J1'55.  
(Corn picker (Machine)) (MIRA 8:10)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4"

DEMIN, V.S.; SAVINSKIY, G.B.; PETROV, A.A., redaktor; ANTONOVA, N.M.,  
tekhnicheskiy redaktor

[Machines for mechanization of work in raising livestock] Mashiny  
dlia mekhanizatsii rabot v zhivotnovodstve. Moskva, Izd-vo Mini-  
sterstva sel'skogo khozaiistva SSSR, 1956. 31 p. (MLR 9:11)  
(Farm equipment)

DEMIN,V.S.; SAVINSKIY,G.B.; PETROV,A.A., redaktor; ANTONOVA,N.M., tekhnicheskiy redaktor

[Tractors, automobiles and engines in Soviet agriculture]  
Traktory, Avtomobili i dvigateli v sel'skom khoziaistve SSSR.  
Moskva, Izd-vo Ministerstva sel'skogo khoziaistva SSSR, 1956.  
60 p.

(Tractors) (Motor trucks)

DEMINSKII, V.S.; SAVINSKIY, G.B.; PETROV, A.A., redaktor; ANTONOVA, N.M.,  
tekhnicheskii redaktor

[Machinery for tillage] Pochvoobrabatyvaiushchie mashiny. Moscow,  
Izd-vo Ministerstva sel'skogo khoziaistva SSSR, 1956. 63 p.  
(Agricultural machinery) (MIRA 9:9)

SAVINSKIY, G.B.

The KTN-2 suspended potato digger. Biul. tekhn.-ekon. i uform. no.3:  
65-66 '58.

(Potato digger (Machine))

(MIRA 11:6)

SAVINSKIY, G.B.

The GBV-2,0 side-delivery rakes. Biul. tekhn.-ekon. inform. no.3:  
(MIRA 11:6)  
66-67 '58. (Agricultural machinery)

SAVINSKIY, G.B.

The SKG automotive caterpillar rice-grain combine. Biul.tekh.-ekon.  
inform. no.6:54-56 '58. (MIREA 11:8)  
(Combines (Agricultural machinery))

SAVINSKIY, G.B.

The PSK-1,8 semimounted ensilage harvesting combine. Biul.tekh.-ekon.  
inform. no.7:61-62 '58. (MIRA 11:9)  
(Combines (Agricultural machinery))

SAVINSKIY, G.B.

The ZhNB-3 harvesting machine. Biul.tekh.-ekon.inform. no.9:59-61  
'58. (MIRA 11:10)  
(Harvesting machinery)

SAVINSKIY, G.B.

The DVSSh-16 automotive chassis. Biul.tekh.-ekon.inform. no.  
10:59-60 '58. (MIRA 11:12)  
(Tractors)

SAVINSKIY, G.B.

The EKP electric truck. Biul.tekh.-ekon.inform. no.10:76-78  
' 58. (MIRA 11:12)  
(Electric vehicles)

SAVINSKIY, G.B.

The KS-3 beet-harvesting combine. Biul.tekh.-ekon.inform.  
no.11:64-66 '58. (MIRA 11:12)  
(Beets and beet sugar--Harvesting)

SAVINSKIY, G.B.

The OSSh-10 dusting equipment. Biul.tekh.-ekon.inform. no.11:  
69-70 ' 58. (MTRA 11:12)  
(Spraying and dusting equipment)

SAVINSKIY, G.B.

The 02 and 04-type motor loaders. Biul.tekh.-ekon.inform.  
no.11:79-80 '58. (MIRA 11:12)  
(Motor vehicles)

SAVINSKIY, G.B.

The LT-35 tractors. Biul.tekh.-ekon.inform. no.12:50-52 '58.  
(MIRA 11:12)

(Tractors)

PA 17T34

SAVINSKY G. N.

USSR/Medicine - Malaria  
Medicine - Chemotherapy

May/Jun 1947

"Experience with Malaria Treatment with  
Sulfadiazine," G. N. Savinskij, Clinical Department  
of the Institute of Malaria and Medical Para-  
sitology of the Academy of Medical Sciences, USSR,  
5 pp

"Meditinskaya Parazitologiya" No 3

Discusses the use of sulfadiazine in malaria  
tertiana and tropical malaria, with full trubular  
data, and concludes that sulfadiazine has an in-  
disputable antimalarial effect.

17T34

NIKULENKO, N.M.; SAVINSKIY, G.N.

Diagnostic significance of a study of the vessels of the eye in  
Botkin's disease. Sov.med. 23 no.10:78-81 O '59. (MIRA 13:2)

1. Iz gruppy deystvitev'nogo chlena AMN SSSR prof. Ye.M. Tareyeva  
(Moskva).

(HEPATITIS, INFECTIOUS diagnosis)  
(LIVER CIRRHOSIS diagnosis)  
(EYE blood supply)

SAVINSKIY, I.D.

Solution of an inverse problem in gamma-ray measurement. Izv.  
AN SSR. Ser. geofiz. no. 3:379-386 Mr '61. (MIRA 14:2)  
(Radioactive prospecting)

SAVINSKIY, I.D.

Feasibility of obtaining information concerning the distribution  
of radioactive substances along the normal to the interface  
between two media. Izv. AN SSSR. Ser.geofiz. no.2:329-332 F  
'63. (MIRA 16:3)  
(Radioactive substances)

SAVINSKIY, Igor' Dmitriyevich; SHMIDT, N.G., red.

[Tables of probabilities for the resection of elliptical objects by a rectangular observation network] Tablitsy veroiatnostei podsecheniya ellipticheskikh ob"ektov priamougol'noi set'iu nabliudenii. Moskva, Nedra, 1964. 86 p.  
(MIRA 17:11)

Savinskiy, I. S.

AUTHORS: Savinskiy, I. S. and Khokhryakov, P.A. 65-1-5/14

TITLE: Isopentane in Crude Oil and Accompanying Gases as Raw Material for the Manufacture of Synthetic Rubber.  
(Izopentan v nefti i poputnykh gazakh - syr'ye dlya proizvodstva kauchuka).

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masei, 1958, Nr.1. pp.23-24.  
(USSR).

ABSTRACT: Isopentane, obtained from crude oil and accompanying gases, makes it possible to increase considerably the sources of raw materials for the synthetic rubber industry and to reduce considerably imports from abroad. Isopentane can be obtained from products produced during catalytic cracking. These products contain up to 3% weight of isopentane and up to 4 - 4.5% of amylanes. 20,000 t/year of isopentane or 30,000 t/year of isopentane-amylene fractions can be obtained from catalytic cracking processes. An alternative source of isopentane are the accompanying gases which contain up to 3% pentane fractions, the pentane fraction itself comprises up to 1/3rd of isopentane. The gas works of the Tatar and Bashkir Republics will produce in 1965 about 12 t of pentane fraction for every 1,000,000 m<sup>3</sup> of processed gas, from which up to 4 t of isopentane will be obtained.

Card 1/2

65-1-5/14

Isopentane in Crude Oil and Accompanying Gases as Raw Material for  
the Manufacture of Synthetic Rubber.

This can be increased by isopentane obtained by iso-  
merisation of n-pentane. The pentane constitutes 1% -  
1.5% of crude petroleum. The isomerisation of n-pentane  
has been investigated by LennII. High yields of isomers  
were obtained. The first plant for isomerisation pro-  
cesses is to be erected in one of the Eastern Regions  
of the country, and will have an annual output of 60,000  
t of isopentane.

ASSOCIATION: Fiziko-khimicheskiy institut im. Karpova (Institute  
of Physical Chemistry imeni Karpov)

AVAILABLE: Library of Congress.

Card 2/2

USSR/Physics - Pumps

FD-575

Card 1/1      Pub. 153-15/28

Author : Savinskiy, K. A.

Title : Distribution of concentrations of the evacuated gas in a stream-jet vacuum pumps

Periodical : Zhur. tekhn. fiz. 24, 875-878, May 1954

Abstract : Studies the distribution of concentrations of the gas being evacuated in the operating space of a steam-oil high-vacuum pump. Establishes that in the case of the distribution of concentrations of the gas close to the wall of the pump casing the presence of a minimum concentration is characteristic, which contradicts the theory of I. M. Livshits and L. N. Rozentsveyg (ZhTF, 22, 1362, 1952), that a maximum exists close to the cooled wall.

Institution :

Submitted : October 10, 1953

SAVINSKIY, K.A.

✓ High-vacuum equipment. K. A. Savinskiy. Zavodskaya  
Lab. 21, 1111-27(1955).—Detailed description of produc-  
tion models of Soviet-made mech. and diffusion pumps,  
with operational characteristics and a description of avail-  
able Soviet-made high-vacuum electronically operated  
gages. A brief review of principles of high-vacuum main-  
tenance. (G. M. Kosolapoff)

SAVINSKIY, K. A.  
USSR/Physics - Vacuum Pumps

FD-2839

Card 1/1      Pub. 153-22/30

Author      : Savinskiy, K. A.

Title      : Distribution of Concentrations of the Evacuated Gas in a Stesm-Jet  
              Vacuum Pump

Periodical      : Zhur. Tekh. Fiz., 25, 720-725, 1955

Abstract      : Concentrations of evacuated gases (argon, hydrogen), were exper-  
              imentally determined in a two-stage high vacuum pump with circular  
              widening nozzles. The results, as well as those previously ob-  
              tained by the author [ZhTF, 24, 875 (1954)] concur with theoreti-  
              cal results obtained by V. I. Skobelkin and N. I. Yushchenkov ZfTF,  
              24, 1879 (1954)]. Indebted to S. A. Vekshinskiy, S. N. Mityushkin  
              and N. A. Volkov. Four references, one US.

Institution      :

Submitted      : November 18, 1955

Savinskiy, K. A.

AUTHOR: Savinskiy, K. A.

TITLE: High-vacuum Pumps (Vysokovakuumnyye nasosy)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, No. 1, pp. 106-115  
(U.S.S.R.)

ABSTRACT: The author reviews vacuum pump development in foreign countries. He connects the requirement for high vacuums with the production of highly refractory materials and metals used in nuclear-power research. The various steps in the development of vacuum pumps are recalled; the mechanical pumps, rapid pumps working in the range of pressure of  $10^{-3}$ - $10^{-2}$  mm/Hg, pumps not using the flow-of-vapor principle, and research work to attain pressures as low as  $10^{-9}$ - $10^{-11}$  mm/Hg. The mechanical pumps of the British Edwards firm are discussed with illustrations, graphs and tables. The products of Dreyer & Holland-Merten are taken up in the same way. Booster pumps are then discussed, including developments in this line in the U. S. A. New methods of producing vacuums are next taken up and, finally, research work in various foreign countries in the field of producing

Card 1/2

High-vacuum Pumps

extremely high vacuums is dealt with, all illustrated with cuts, graphs and tables. There are 15 references, of which 1 is Slavic.

ASSOCIATION:

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Card 2/2

SOV/137-59-1-363

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 45 (USSR)

AUTHOR: Savinskiy, K. A.

TITLE: High-vacuum Pumps and Associated Equipment (Vysokovakuumnye  
nasosy i agregaty)

PERIODICAL: V sb.: Primeneniye vakuuma v metallurgii. Moscow, AN SSSR,  
1958, pp 66-75

ABSTRACT: An outline of the relationships existing between the residual pressure  
in a vacuum system, the rate of evolution of gas, the rate of pumping  
of a given volume, the capacity of the pump, and the capacity of the  
pipe line. The author emphasizes the decisive importance of the  
value of the latter on the creation of the vacuum required in a system.  
An example is discussed dealing with the selection of a pump for  
given values of residual pressure and evolution of gases from a metal.  
Characteristics of pumps of the BN-3 and BN-1500 types are given.  
The design of the VA8-4 vacuum-pumping aggregate is described and  
its advantages are listed. Recommendations for the selection of  
vacuum pumps for various operating conditions are given and the im-  
portance of knowing the composition and the quantity of gases evolved

Card 1/2

SOV/137-59-1-363

High-vacuum Pumps and Associated Equipment

from the system to assure proper selection of components is emphasized.

A. Sh.

Card 2/2

BELYAYEV, A.P., red.; BESSOLITSYK, Ye.N., red.; BLINNIKOV, I.I.,  
red.; DZINKAS, Yu.K., red.; ZHARKOV, M.A., red.;  
KOROVIN, A.V., red.; KUR'YANOV, F.K., red.; MANDEL'BAUM,  
M.M., red.; NALETOV, P.I., red.; RYABENKO, V.Ye., red.;  
SAVINSKIY, K.A., red.; SERD, A.I., red.; SEMENYUK, V.D.,  
red.; TIKHONOV, L.M., red.; TIKHONOV, V.L., red.;  
TROFIMUK, P.I., red.; TUMILOVSKAYA, M.V., red.; FOMIN,  
N.I., red. BEKKAN, Yu.K., ved. red.

[Recent data on the geology, petroleum potentials, and  
mineral resources of Irkutsk Province] Novye dannye po  
geologii, neftlenosti i poleznyim iskopayemym Irkutskoi  
oblasti. Moskva, Nedra, 1964. 278 p. (MIRA 17:8)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye geologii  
i okhrany nedr. Irkutskoye geologicheskoye upravleniye.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4

SAVINSKIY, K.A.

Some characteristics of the ancient structural plan in the  
southern part of the Siberian Platform. Sov. geol. 8 no. 2, 60.  
70 F '65. (MIRA 18532)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4"

PRITULA, Yu.A.; SAVINSKIY, K.A.; MANDEL'BAUM, M.M.; TROITSKIY, V.N.

Means for a practical solution of the problem of oil and gas  
potentials of the southern part of the Siberian Platform. Geol.  
nefti 2 no.4:5-11 Ap '58. (MIRA 11:5)

1. Vostsibneftegeofizika.  
(Siberian Platform--Petroleum geology)  
(Siberian Platform--Gas, Natural--Geology)

3(5)

PHASE I BOOK EXPLOITATION SOV/2544

Savinskiy, Konstantin Aleksandrovich, Mark Mironovich Mandel'baum,  
Vsevolod Nikolayevich Troitskiy, Naum Iosifovich Shekht, and  
Nikolay Pavlovich D'yachkov

Effektivnost' geofizicheskikh metodov razvedki v yuzhnoy chasti  
Sibirskoy platformy, vpadinakh Zabaykal'ya i Dal'nego Vostoka  
(Efficacy of the Geophysical Methods of Prospecting in the  
Southern Part of the Siberian Platform, and in the Transbaykal  
and Far East Depressions) Moscow, Gostoptekhizdat, 1959.  
114 p. 2,900 copies printed.

Sponsoring Agency: Glavgeologiya RSFSR. Vostsibnefteteofizika.  
Ed.: V. G. Vasil'yev; Exec. Ed.: Ye. G. Pershina; Tech. Ed.:  
I. G. Fedotova.

PURPOSE: This book is intended for geophysicists, geologists,  
petroleum geologists, and area specialists interested in the  
Siberian region.

Card 1/4

Efficacy (Cont.)

SOV/2544

COVERAGE: The book contains the results of geophysical explorations carried out in the southern part of the Siberian platform and in the depressions of Zabaykal'ye and Zeye-Bureinskaya. Questions in the methodology of geophysical studies are examined and suggestions are made on the direction and content of future work in Eastern Siberia. Oil- and gas-bearing possibilities of the region are discussed with an eye to future economic growth. The southern part of the Siberian platform, the so-called Irkutskiy amphitheater, is cited as being particularly favored in the economic sense. Materials collected in the field are used in the work. No personalities are mentioned. There are 59 references, all Soviet.

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AVAILABLE: Library of Congress

Card 4/4

MM/jb  
11-2-59

SAVINSKIY, K.A.; POSPEYEV, V.I.; POMPIK, V.I.; GUSAK, M.T.

Tectonics and the outlook for oil and gas in the Chuna-Biryusa  
uplift. Geofiz. issl. i probl. neftgaz. iuga Sib. plat. no.2:  
109-127 '62. (MIRA 15:8)

(Chuna Valley--Petroleum geology)

(Chuna Valley--Gas, Natural--Geology)

(Biryusa Valley--Petroleum geology)

(Biryusa Valley--Gas, Natural--Geology)

ZAMARAYEV, S.M.; SAVINSKIY, K.A.; MANDEL'BAUM, M.M.

Tectonics of the southern part of the Siberian Platform and  
trends in oil prospecting. Sov. geol. 6 no.5:38-50 My '63.  
(MIRA 16:6)

1. Vostsibneftegeofizika.  
(Siberian Platform—Geology, Structural)  
(Siberian Platform—Prospecting)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4

SAVINSKIY, K.F.; RYKOVA, A.N.

Field history book. Zemledelie 27 no.3:70-73 Mr '65.  
(MIRA 19:1)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4"

SAVINSKIY, N.A.

Modified method of quantitative spectral analysis. Zav.lab.  
27 no.8:1003-1008 '61. (MIRA 14:7)

1. Ural'skiy lesotekhnicheskiy institut.  
(Spectrum analysis)

SAVINSKIY, N.V.  
USSR/General Division - Scientific Institutions.

A-3

Abs Jour : Ref Zhur - Biologiya, No 7, 10 April 1957, 25707  
Author : Savinskiy, N.V.  
Inst : Sobokino Agricultural Meteorological Station, Moscow  
Title : Institute of Hydrometeorology.  
Orig Pub : 40 Years Since the Foundation of the Agricultural  
Meteoro logical Station of Sobokino  
Meteorol. i Gidrologiya, 1956, No 4, 68-69

Abst : A historical account of the foundation (1915) and activities of the agricultural meteorological station situated in the Naro-Fominsk rayon. The founder of the station was V.A. Vlasov. Over a period of 40 years, studies carried out at the station dealt with the agro-meteorological conditions of plant growth; the elementary runoff of snow and rain water, evaporation and precipitation in the plant cover in relation to the density and height of grass cover, etc. In 1934, the station was assigned

Card 1/2

USSR/General Division - Scientific Institutions.

A-3

Abs Jour : Ref Zhur - Biologiya, No 7, 10 April 1957, 25707

to the Moscow Hydrometeorological Institute. From 1934 to 1941, 20 research projects were completed at the station. In recent years, the station has not only been supplying agricultural organizations with ten-day bulletins, but initiated monthly agrometeorological round-ups.

Among experimental researches conducted there, noteworthy are studies of winter rye, alfalfa phytoclimate, foxtail millet, special observations of cucumbers, and others. Materials relating to the meteorological conditions of the growth of winter rye have been synthesized over a period of 20 years. A project for the first agro-meteorological handbook has been drafted. For about 30 years, the operations of the station were directed by S.I. Nebol'sin.

Card 2/2

SAVINSKII, N.V.

Sugar dynamics of winter crops in the moscow area as related to  
meteorological factors. Sbor. rab. Mosk. gidromet. obser.  
no.1:34-38 '60. (MIRA 14:11)

(Sugars)  
(Moscow Province--Grain)  
(Plants--Frost resistance)

SAVINSKIY, N.V.

Beginning of the grazing of cattle in the Moscow area.  
Sbor. rab. Mosk. gidromet. obser. no.1:85-88 '60.  
(MIRA 14:11)  
(Moscow Province--Grazing)

SAVINSKIY, N.V. (Moskovskaya oblast!)

"School excursions into nature" by M.A. Paporkov. Reviewed  
by N.V. Savinskii. Biol. v shkole no.1:95 Ja-F '63.  
(MIRA 16:6)

(School excursions)  
(Paporkov, M.A.)

SAVINSKIY, P.I.

Methods of preserving forms and natural colors of caterpillars, larvae of insects, fish, and other living things when being dried. Zool. zhur. 32 no. 6:12'55-1287 N-D '53. (MLRA 6:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut sotsialisticheskogo zemledeliya. (Zoological specimens--Collection and preservation)

SAVINS'KIY, P.I.

Smut of Italian millet. Mikrobiol.zhur. 16 no.3:31-34 1954.

(MIRA 8:7)

1. Z Ustilago na milleto. Naukovo-doslidnogo Instituta sotsialisticheskogo zemlerodstva.

(GRAIN,

Setaria italica, Ustilago)

(FUNGUS DISEASES,

Ustilago of Setaria italica)

SAVINS'KIY, P.I.

Bacteriosis of Italian millet. Mikrobiol.zhur. 16 no.3:35-37 '54.  
(MIRA 8:7)

1. Z Ukrains'kogo naukovo-doslidnogo instituta sotsiliastchnogo  
zemlerodstva.  
(GRAIN,  
Setaria italica, bacteriosis)

SAVINSKIY, P.I. (Kiyev).

Dry method of preserving the form and natural color of plants  
(blossoms, leaves, fruit, roots, and tubers). Bot.zhur. 39  
no.1:101-102 Ja-F '54. (MLRA 7:3)

SAVINSKIY, P.I.

Hydrokinesis of fungi and hydrophobic method of controlling  
plant disease. Zhur. ob.biol. 23 no.3:227-236 My-Je '62.

(MIRA 15:6)

1. Institute of Agriculture of the Ukrainian S.S.R., Kiyev.  
(FUNGI, PHYTOPATHOGENIC)

KUTATELADZE, K. S., prof., doktor tekhn.nauk; TANDILOVA, K. B., kand.tekhn.  
nauk; SAVINSKIY, P. P., inzh.; YENUKIDZE, N. Ye., inzh.

Quick hardening slag portland cement from the Rustavi cement plant.  
Nauch. soob. NIISementa no.11:17-17-161. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut promstroymaterialov sovmarkhoza  
Gruzinskoy SSR i Rustavskiy tsementnyy zavod.  
(Rustavi-Cement)

MYL'NIKOV, N.I., nachal'nik depo; SAVINSKIY, V.I., inzhener.

Technical and economic efficiency in using electric traction. Zhel.  
dor.transp. 37 no.1:29-35 Ja '56. (MLRA 9:3)  
(Electric locomotives)

SAVINSKIY, V.I., inzhener.

A needed book on automatic brakes. "Automatic brakes," B.L. Karvatskiy, V.M. Kazarinov. Reviewed by V.I. Savinskii. Zhel. der. transp. 39 no. 3:93-94 Mr '57. (MLRA 10:4)

(Railroads--Brakes)  
(Karvatskiy, B.L.) (Kazarinov, V.M.)

KAPULER, M.A., inzh.; SAVINSKIY, V.I., inzh.

Instructive results of the introduction of electric traction on  
the Ufa railroad. Zhel. dor. transp. 40 no. 7:21-28 J1 '58.  
(MIRA 11:?)

(Electric railroads)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4

SAVINSKIY, V.I., inzh.

Competition for the lofty title of Brigade of Communist Labor.  
Zhel. dor. transp. 41 no.2:71-75 F '59. (MIRA 12:3)  
(Railroads--Employees)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4"

KOROSTELEV, A.I., inzh.; SAVINSKIY, V.I., inzh.

Needed book with serious shortcomings ("Heavy trains" by V.V. Deev. Reviewed by A.I.Korostelev, V.I.Savinskii). Zhel.dor. transp. 42 no.2:94-96 F '60. (MIRA 13:5) (Railroads--Trains) (Deev, V.V.)

GOROZHANTSEV, F.I., inzh. (g.Irkutsk); SAVINSKIY, V.I., inzh. (g.Irkutsk)

Mechanization of operations in car maintenance and repair shops.  
Zhel.dor.transp. 43 no.10:73-76 O '61. (MIRA 14:9)  
(Railroads--Repair shops)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4

ZUBCHENKO, V.V., inzh.; SAVINSKIY, V.I., inzh.

Mass electrification of railroads is an important link in the over-all electrification of the country. Zhel.dor.transp. 44 no.4:13-19  
Ap '62.

(MIRA 15:4)

(Railroads--Electrification)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4"

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4

MURZIN, L.G., inzh.; SAVINSKIY, V.I., inzh.

Economical use of fuel and electric power. Zhel.dor.transp. 45  
no.10:30-33 0 '63. (MIRA 16:11)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410006-4"

LENKEVICH, M.M.; GRIGOR'YEVA, L.M.; MIKHEL'SON, M.Ya.; SAVINSKIY, Ya.R.;  
MEN'SHAKOV, G.P.; BEL'GOVA, I.N.; TANK, L.I.; KARASIK, V.M.

Pharmacology and Toxicology Section of the Leningrad I.M. Sechenov So-  
ciety of Physiologists, Biochemists and Pharmacologists. Farm. i toks.  
16 no.2:57-58 Mr-Ap '53. (MLRA 6:6)

1. Otdel farmakologii IEM Akademii meditsinskikh nauk SSSR (for Lenke-  
vich and Tank). 2. Pervyy Leningradskiy meditsinskiy institut (for  
Mikhel'son and Savinskiy). 3. Kafedra farmakologii Leningradskogo vete-  
rinarnogo instituta (for Men'shakov). 4. Leningradskiy pediatricheskiy  
meditsinskiy institut (for Bel'gova). 5. Sektsiya farmakologii i toksi-  
kologii Leningradskogo obshchestva fiziologov, biokhimikov farmakologov  
imeni I.M. Sechenova. (Pharmacology--Societies) (Physiology--Socie-  
ties) (Biochemistry--Societies)

SAVINSKIY, Ya. R.

① *M* Antispasmodic effects of benzimidazole and ganglerone (studies of new antispasmodics). M. Ya. Mikheil'son and Ya. R. Savinskii (I. P. Pavlov 1st Med. Inst., Leningrad). *Farmakol. i Toksikol.* 18, No. 3, 28-33 (1955).—Benzimidazole, L.D.<sub>50</sub> 610 mg./kg. in mice, is actively antispasmodic to nicotine convulsions (rabbits, mice) and strychnine convulsions (cats, mice). Ganglerone, a new cholinolytic and nicotinolytic drug, is active against nicotine (but not against strychnine) convulsions. It is synergistic with benzimidazole against nicotine. A blend of these two with atropine is indicated for clinical use as an antispasmodic. J.F.S.

SHATALOVA, A.A.; MEYEROV, G.I.; SAVINSKIY, Ya.R.

Possibility of quantitative determination of chromoproteins by  
the radiometric method. Biokhimia 25 no.4: 577-583 Jl-Ag '60.  
(MIRA 13:11)

1. V.M.Bekhterev Research Psychoneurologic Institute, Leningrad.  
(BLOOD—ANALYSIS AND CHEMISTRY)  
(HEMOGLOBIN) (CARBON-ISOTOPES)

I. 09255-67 EMP(d)/EMP(w)/EMP(v)/EMP(k)/EMP(h)/EMP(l) IJP(c) EN/MM

ACC NR: AP6029941

SOURCE CODE: UR/0413/66/000/015/0103/0103

INVENTORS: Savinskiy, Yu. S.; Sklyarov, L. P.; Dreyzin, A. I.; Lazarev, G. F. 54

ORG: none

TITLE: A stand for dynamic and strength testing of automatic pitch controls of a helicopter. Class 42, No. 184497

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 103

TOPIC TAGS: helicopter, dynamic stress, fatigue test, endurance test, vibration test, test equipment, test method, test stand

ABSTRACT: This Author Certificate presents a stand for dynamic and strength testing of automatic pitch controls of a helicopter. The stand consists of a shaft supporting the driving mechanism of automatic controls and the loading mechanism with levers for the total and the cylindrical motion. The levers are connected by tie rods to the tested automatic pitch controls. To produce the vibration spectrum (in five harmonics) by external loading, and to impart a hinge moment to the helicopter blade, similar to those encountered in actual performance, to conduct the combined fatigue and strength tests, and to simplify the construction of the stand, a revolving experimental automatic pitch control and the traverse with torsion bars are mounted on the shaft. One end of the bars is connected to the stand's automatic pitch controls, and the other end is connected through the traverse to the tested automatic pitch control.

Caro 1/1 Sub Code: 51/13 Sub Date: 15Oct63 UDC: 620.178 . 629.139

SAVINTSEV, G.N., inzhener (g.Voronezh)

From experience in repairing track in winter conditions. Zhel.  
dor.transp.37 no.11:59-62 N '55. (MILRA 9:2)  
(Railroads--Maintenance and repair)

SAVINTSEV, G.N., inzhener (g. Voronezh)

Prolonging the life of railroad ties. Zhel. dor. transp. 38  
no.8:66-69 Ag '56. (MLRA 9:10)

(Railroads--Ties)

SEmenov, N.G. (st. Rossosh'); SAVINTSEV, G.N., inzhener (st. Rossosh')

Experience of the Rossosh section. Put.i put.khoz. no.4:36-37  
Ap '57. (MLRA 10:5)

1. Nachal'nik Rossoshanskoy distantsii puti Yugo-Vostochnoy dorogi  
(for Semenov) (Railroads--Ties)

SAVINTSERV, G.N., inzh. (Voronezh).

Combination ballast consisting of crushed stone and sand. Put' i  
put. khoz. no.1:21 Ja '58. (MIRA 11:1)  
(Ballast (Railroads))

SAVINTSEV, G.N., inzh. (Voronezh)

Using the building up method for eliminating saddles. Put'i  
put.khoz. no.12:14-15 D '58. (MIRA 12:1)  
(Railroads--Rails--Welding)

*BC**A-1*

Formation of liquid phase at the site of contact between two crystals comprising a eutectic pair. D. D. Saratovkin and P. A. Savintsev (Comp. rend. Acad. Sci. U.R.S.S., 1941, 52, 304-305).—Results obtained on heating eutectic pairs of org. compounds, such as BaOH and C<sub>6</sub>H<sub>6</sub>, and pairs of metals such as Sb-Pb, Pb-Bi, Pb-Sn, and Cd-Bi, show that eutectic melting is a result of contact between two solid phases rather than a particular property of a eutectic. I. S. T.

Dept. Physics, Tomsk Inst. of Nat. Sci.  
S. M. Kirov

ASPC-51A METALLURGICAL LITERATURE CLASSIFICATION

P.A. SAVINTSEV

\*Capillary Phenomena in the Contact Melting of Crystals.  
D. D. Saratorkin and P. A. Savintsev (*Doklady Akad. Nauk S.S.R.*, 1951, 80, (4), 631-633). [In Russian]. On placing a particle of Sn on a fresh surface at the base of a single crystal of Zn and heating in rosin, the Sn disappeared on reaching 199° C., the m.p. of the Sn-Zn eutectic, and the surface of the base was covered with a grey coating, found by microscopical examination to be the eutectic; this shows that the liquid formed at the point of contact wets the surface. When two small pieces of ordinary polycryst. Sn and Zn were heated in contact under rosin to a temp. slightly above the m.p. of the eutectic, the pieces were sintered together and both were covered with a thin layer of Sn-Zn alloy. Similar results were obtained with other pairs: Bi-Sn, Bi-Pb, Pb-Sh. 1-mm. rods of Pb and Sn were placed in end-to-end contact beneath rosin and heated to 183.3° C.; a small drop of liquid formed at the point of contact was absorbed by the rods and the contact was broken, so that melting ceased. It began again when the rods were brought into contact once more. A rod of Sn was placed upright on a Pb plate in a crucible contg. rosin; on heating, the liquid spread across the plate and also rose 5 mm. up the rod. Experiments with organic compounds are also described. In contact melting, the crystals of the components are at a temp. slightly above the m.p. of the eutectic, but at the point of contact the temp. will fall to the m.p. owing to absorption of latent heat. On wetting the surfaces of the crystals, the temp. of the liquid rises slightly, leading to the dissolving

of some of the surface and the enrichment of the liq. film in that component. The liq. film will also cause broadening of cracks in the crystals.—G. V. E. T.

SAVINTSEV, P.A.

Category : USSR/Solid State Physics - Phase transformation of solid bodies

E-5

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 1216

Author : Savintsev, P.A., Kutsepalenko, V.V.

Title : Measurement of the Surface Energies of Monocrystals of a Potassium-Chloride  
-- Sodium Chloride System Using the Method of Drilling and Mutual Polishing

Orig Pub : Izv. Tomskogo politekhn. in-ta, 1956, 83, 206-209

Abstract : The surface energy  $\sigma$  of the crystals was determined in two ways. If two crystals are correctly polished one gets  $\sigma_1 V_1 = \sigma_2 V_2$ , where  $V$  is the polished volume. The theory of the drilling method gives  $\sigma_1 a_1 = \sigma_2 a_2$ , where  $a$  is the angular coefficient on the "diameter of conical crater vs. number of drill revolutions under constant pressure" curve on the drilling diagram. The investigations were performed on monocrystals of NaCl with an admixture of KCl (up to 12 molecular percent) and on monocrystals of KCl with an admixture of NaCl (up to 12 molecular percent). The results obtained by both methods turned out to be comparable. Addition of KCl to NaCl as well as addition of NaCl to KCl cause a reduction in the surface energy, this being explained by the weakening of the bonds in the lattice. This effect is particularly large at

Card : 1/2

Category : USSR/Solid State Physics - Phase transformation of solid bodies E-5

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 1216

low temperature concentrations (up to 2.5%). Annealing the monocrystals of the solid solutions did not exert a noticeable influence on the value of the surface energy.

Card : 2/2

SAVCHENKO, I. A.

"On the problem of the Association of Dielectric Strength of Crystals With Their Surface Energy," p. 199-207, ill., 8 ref.

Abst: A relationship is found between the dielectric strength of alkali-haloid crystals and the number of gram-molecules per unit volume. Dielectric strength  $E_{pr}$  is computed for single crystals of LiCl, LiBr, CsBr, CsCl, and CsJ, for which experimental data on the value of  $E_{pr}$  are unavailable.

SOURCE: Isvestiya Tomskogo Politekhn. In-ta im. S. M. Kirova (News of the Tomsk Polytechnic Institute imeni S. M. Kirov), Volume 91, Works of the Conference on Solid Dielectrics, Tomsk, September 1955, Tomsk, Publishing House of the Polytechnical Institute, 1956.

Sum 1854

SAVINTSEV, P. A.

USSR/Physical Chemistry - Crystals, B-5

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60886

Author: Savintsev, P. A., Kutsepalenko, V. V.

Institution: None

Title: On Surface Energy of Monocrystals of the Systems Sodium Chloride-Calcium Chloride and Potassium Chloride-Potassium Bromide

Original Periodical: Tr. Sibirs. fiz.-tekhn. in-ta pri Tomskom un-tse, 1955, No 34, 170-177

Abstract: By the method of mutual grinding were measured the surface energies  $\sigma$  of monocrystals of the system KCl-NaCl (I) and system KCl-KBr (II).  $\sigma$  of I were also measured by the method of drilling.  $\sigma$  of KCl monocrystal decreases with increase therein of NaCl concentration,  $\sigma$  NaCl decreases with increase of KCl concentration. An analogous correlation holds for II. In this case  $\sigma$  has a minimum for the composition: 30 mol % KBr, 70 mol % KCl. Admixture of NaCl lowers  $\sigma$  KCl more than admixture of KBr.

Card 1/1

SOV/112-58-2-1858

Translation from: Referativnyy zhurnal. Elektrotehnika, 1958, Nr 2, p 9 (USSR)

AUTHOR: Savintsev, P. A.

TITLE: On the Relationship Between the Electric Strength of Crystals and Their Surface Energy. (K voprosu o svyazi elektricheskoy prochnosti kristallov s ikh poverkhnostnoy energiyey)

PERIODICAL: Izv. Tomskogo politekhn. in-ta, 1956, Vol 91, pp 199-207

ABSTRACT: Surface energy  $\sigma$  of alkali-kalide KCl, NaCl, KBr, NaBr single crystals and their double systems has been determined by the method of mutual grinding and drilling (Khmel'cov, V. D. -- "Surface Energy of Solid Bodies," 1954). It is pointed out that  $\sigma$  values and electric strength values of crystals are proportional to the ratio of crystal density to its molecular weight.

BIBLIOGRAPHY: 8 items. Tomskiy politekhnich. in-t (Tomsk Polytechnic Institute), Tomsk.

A.A.V.

Card 1/1

SAVINTSEV, P.A.

SUBJECT USSR / PHYSICS                    CARD 1 / 2                    PA - 1703  
AUTHOR SAVINCEV, P.A.  
TITLE On the Connection between the Physical Properties of Crystals  
and Molecular Concentration.  
PERIODICAL Dokl.Akad.Nauk, 110, fasc.5, 769-771 (1956)  
Issued: 12 / 1956

It frequently happens that crystals are simultaneously exposed to considerable mechanical, thermal, and electric influences. In such cases the totality of many properties of crystals must be studied. A.A. VOROB'EV and E.K.ZAVADOVSKAJA (several citations in less known journals) mention a connection between the properties of ion crystals and the energy of the crystal lattice. However, the tests concerning the determination of the lattice energy are complicated and data on the energy of crystals with admixtures are not available. It is therefore advisable to look for such a physical quantity as may be experimentally determined without difficulty and is in connection with the mechanical, thermal, electric, and other properties of the crystal. According to the author's opinion the large number of constants that characterize the properties of a crystal depends on molecular concentration. This quantity is denoted by  $\alpha$  and is determined from the formula  $\alpha = (D/M) \cdot 10^3$ . Here D denotes the density of the crystal and M is the molecular weight. The connection between  $\alpha$  and the properties of the alkaline-halide-crystals is demonstrated by a table. The coefficients k which connect the physical con-